AMENDMENTS TO THE CLAIMS

The current listing of the claims replaces all previous amendments and listings of the claims.

1. (Currently Amended) An image forming apparatus that forms an image using an electrophotographic process, comprising:

a photoconductor that includes at least a conductive support, an undercoat layer, and a photoconductive layer, wherein the photoconductor has a surface roughness of either of with either a 10-point average roughness RzJIS of 0.1 μ m \leq RzJIS \leq 1.5 μ m and or a maximum height Rz of 2.5 μ m or lower;

a charger that charges the photoconductor;

a developing device that develops a latent image on the photoconductor with toner to obtain a toner image;

a transfer device that transfers the toner image to a transfer element;

a cleaning device including a cleaning blade that cleans off toner remaining on the photoconductor after the toner image has been transferred;

a belt that is suspended in a circumferential direction of the photoconductor, the belt being a flat type belt made of polyurethane, and the belt having a JIS-A hardness of 83 degrees, a width of 5 mm, a length of 325 mm, a thickness of 2 mm, and a dead weight of 4.58 grams, wherein

a 100-gram load is hanged hung at one end of the belt so that a contact length thereof with the photoconductor is 3 mm and a contact area is 15 mm² mm² during determination of frictional resistance of the photoconductor against the belt,

the belt is a polyurethane flat type,

the belt has a JIS-A hardness of 83 degrees, width of 5 mm, a length of 325 mm, a thickness of 2 mm, and a dead weight of 4.58 grams,

a digital force gauge is fixed to another end of the belt and a value is read from

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the digital force gauge when the belt moves, and

[[a]] the frictional resistance Rf of the photoconductor against the belt is 45 gram-force<Rf<200 gram-force, the frictional resistance Rf measured under such conditions that a value obtained by subtracting the 100-gram load from the read value of the digital force gauge is determined as the frictional resistance Rf; and

a digital force gauge that is fixed to another end of the belt and a value is read from the digital force gauge when the belt moves.

 (Original) The image forming apparatus according to claim 1, wherein the photoconductor has a 10-point average roughness RzJIS of 0.1 μm ≤RzJIS≤1.0 μm,

the belt has a JIS-A hardness of 83 degrees, and

the cleaning blade is in contact with the photoconductor in a counter direction and includes an edge having a surface roughness of 70 µm or lower.

- 3. (Original) The image forming apparatus according to claim 1, wherein the frictional resistance Rf measured at a temperature ranging from 15°C to 22°C and a humidity ranging from 55 %RH to 65 %RH.
- 4. (Original) The image forming apparatus according to claim 1, wherein a surface roughness of an edge of the cleaning blade ranges from 10 μm to 70 μm .
- 5. (Original) The image forming apparatus according to claim 1, wherein the JIS-A hardness of an edge of the cleaning blade that comes in contact with the photoconductor ranges from 70 degrees to 90 degrees.
- 6. (Original) The image forming apparatus according to claim 1, wherein the cleaning blade comes in contact with the photoconductor in a counter direction at a contact pressure ranging from 10 g/cm to 40 g/cm.
 - 7. (Original) The image forming apparatus according to claim 1, wherein the

cleaning blade comes in contact with the photoconductor in a counter direction at a contact pressure ranging from 10 g/cm to 25 g/cm.

- 8. (Original) The image forming apparatus according to claim 1, wherein the cleaning blade is made of polyurethane rubber.
- 9. (Original) The image forming apparatus according to claim 1, wherein a maximum valley depth Rv of an edge of the cleaning blade in contact with the photoconductor is 40 μ m or less.
- 10. (Original) The image forming apparatus according to claim 1, wherein a maximum valley depth Rv of an edge of the cleaning blade in contact with the photoconductor is 30 µm or less.
- 11. (Original) The image forming apparatus according to claim 1, wherein a lubricant is applied to an edge of the cleaning blade in contact with the photoconductor.
- 12. (Original) The image forming apparatus according to claim 1, wherein the toner has an average sphericity ranging from 0.96 to 0.998.
- 13. (Currently Amended) The image forming apparatus according to claim 1, wherein the cleaning device includes a cleaning brush provided on <u>an</u> upstream side of the cleaning blade in a direction of rotation of the photoconductor, the cleaning brush being made of conductive looped fiber.
- 14. (Currently Amended) The image forming apparatus according to claim 13, wherein the cleaning brush is connected to either of a power supply that supplies a voltage to the cleaning brush and or an electric circuit that grounds the cleaning brush.
- 15. (Original) The image forming apparatus according to claim 1, further comprising:
- a frictional-resistance reducing unit that reduces frictional resistance of the photoconductor so as to maintain the frictional resistance Rf in the range of 45 gram-

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force<Rf<200 gram-force.

- 16. (Original) The image forming apparatus according to claim 15, wherein the frictional-resistance reducing unit includes a lubricant applying unit that applies a lubricant to a surface layer of the photoconductor.
- 17. (Original) The image forming apparatus according to claim 16, wherein the lubricant applying unit non-uniformly applies the lubricant over a surface layer of the photoconductor.
- 18. (Currently Amended) The image forming apparatus according to claim 16, wherein the lubricant is either of zinc stearate and or fluororesin.
- 19. (Original) The image forming apparatus according to claim 1, wherein a charge transport layer of the photoconductor is an organic photoconductive layer.
- 20. (Original) The image forming apparatus according to claim 1, wherein a charge transport layer of the photoconductor includes two layers, a charge transport layer without filler and a filler-containing charge transport layer with filler.
- 21. (Original) The image forming apparatus according to claim 20, wherein a weight average particle size of the filler, which forms the filler-containing charge transport layer, ranges from 0.2 μm to 0.7 μm, and a content of the filler ranges from 10 % by weight to 30 % by weight of the total weight of the filler-containing charge transport layer.
- 22. (Currently Amended) The image forming apparatus according to claim 1, wherein the charger includes a charging member that is applied with either of a direct current voltage and or a direct current voltage with an alternating current voltage superposed thereon, and sets a charging potential of the photoconductor before formation of an electrostatic latent image to from 400 volts to 800 volts to form an image.
- 23. (Currently Amended) A process cartridge comprising a cartridge case that is detachably mounted in an image forming apparatus accommodates at least a photoconductor

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and a cleaning device of an image forming apparatus, wherein the image forming apparatus forms an image using an electrophotographic process and includes

a photoconductor that includes at least a conductive support, an undercoat layer, and a photoconductive layer, wherein the photoconductor has a surface roughness of either of with either a 10-point average roughness RzJIS of 0.1 μm ≤RzJIS≤1.5 μm and or a maximum height Rz of 2.5 μm or lower;

a charger that charges the photoconductor;

a developing device that develops a latent image on the photoconductor with toner to obtain a toner image;

a transfer device that transfers the toner image to a transfer element;

a cleaning device including a cleaning blade that cleans off toner remaining on the photoconductor after the toner image has been transferred;

a belt that is suspended in a circumferential direction of the photoconductor, the belt being a flat type belt made of polyurethane, and the belt having a JIS-A hardness of 83 degrees, a width of 5 mm, a length of 325 mm, a thickness of 2 mm, and a dead weight of 4.58 grams, wherein

a 100-gram load is hanged hung at one end of the belt so that a contact length thereof with the photoconductor is 3 mm and a contact area is 15 mm² mm² during determination of frictional resistance of the photoconductor against the belt,

the belt is a polyurethane flat type,

the belt has a JIS-A hardness of 83 degrees, width of 5 mm, a length of 325 mm, a thickness of 2 mm, and a dead weight of 4.58 grams,

a digital force gauge is fixed to another end of the belt and a value is read from the digital force gauge when the belt moves, and

[[a]] the frictional resistance Rf of the photoconductor against the belt is 45

gram-force<Rf<200 gram-force, the frictional resistance Rf measured under such conditions that a value obtained by subtracting the 100-gram load from the read value of the digital force gauge is determined as the frictional resistance Rf; and

a digital force gauge that is fixed to another end of the belt and a value is read from the digital force gauge when the belt moves.

24. (Original) The process cartridge according to claim 23, wherein the photoconductor has a 10-point average roughness RzJIS of 0.1 μm ≤RzJIS≤1.0 μm,

the belt has a JIS-A hardness of 83 degrees, and

the cleaning blade is in contact with the photoconductor in a counter direction and includes an edge having a surface roughness of 70 µm or lower.

- 25. (Original) The process cartridge according to claim 23, wherein the frictional resistance Rf measured at a temperature ranging from 15°C to 22°C and a humidity ranging from 55 %RH to 65 %RH.
- 26. (Original) The process cartridge according to claim 23, wherein a surface roughness of an edge of the cleaning blade ranges from 10 μm to 70 μm.
- 27. (Original) The process cartridge according to claim 23, wherein the JIS-A hardness of an edge of the cleaning blade that comes in contact with the photoconductor ranges from 70 degrees to 90 degrees.
- 28. (Original) The process cartridge according to claim 23, wherein the cleaning blade comes in contact with the photoconductor in a counter direction at a contact pressure ranging from 10 g/cm to 40 g/cm.
- 29. (Original) The process cartridge according to claim 23, wherein the cleaning blade comes in contact with the photoconductor in a counter direction at a contact pressure ranging from 10 g/cm to 25 g/cm.

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- 30. (Original) The process cartridge according to claim 23, wherein the cleaning blade is made of polyurethane rubber.
- 31. (Original) The process cartridge according to claim 23, wherein a lubricant is applied to an edge of the cleaning blade.
- 32. (Currently Amended) The process cartridge according to claim 23, wherein the cleaning device includes a cleaning brush provided on <u>an</u> upstream side of the cleaning blade in a direction of rotation of the photoconductor, the cleaning brush being made of conductive looped fiber.
 - 33. (Original) The process cartridge according to claim 23, further comprising:
- a frictional-resistance reducing unit that reduces frictional resistance of the photoconductor so as to maintain the frictional resistance Rf in the range of 45 gramforce<Rf<200 gram-force.
- 34. (Original) The process cartridge according to claim 33, wherein the frictional-resistance reducing unit includes a lubricant applying unit that applies a lubricant to a surface layer of the photoconductor.
- 35. (Original) The process cartridge according to claim 34, wherein the lubricant applying unit non-uniformly applies the lubricant over a surface layer of the photoconductor.
- 36. (Currently Amended) The process cartridge according to claim 34, wherein the lubricant is either of zinc stearate and or fluororesin.
- 37. (Original) The process cartridge according to claim 23, wherein a charge transport layer of the photoconductor is an organic photoconductive layer.
- 38. (Original) The process cartridge according to claim 23, wherein a charge transport layer of the photoconductor includes two layers, a charge transport layer without filler and a filler-containing charge transport layer with filler.
 - 39. (Original) The process cartridge according to claim 38, wherein a weight

average particle size of the filler, which forms the filler-containing charge transport layer, ranges from $0.2~\mu m$ to $0.7~\mu m$, and a content of the filler ranges from 10~% by weight of the total weight of the filler-containing charge transport layer.

40. (Currently Amended) A method of forming an image with an image forming apparatus, wherein the image forming apparatus forms configured to form an image using an electrophotographic process and includes a including a photoconductor that includes at least a conductive support, an undercoat layer, and a photoconductive layer, wherein the photoconductor has a surface roughness of either of having a surface with either a 10-point average roughness RzJIS of 0.1 μm ≤RzJIS≤1.5 μm and or a maximum height Rz of 2.5 μm or lower[[;]], a charger that charges the photoconductor[[;]], a developing device that develops a latent image on the photoconductor with toner to obtain a toner image[[;]], a transfer device that transfers the toner image to a transfer element[[;]], a cleaning device including a cleaning blade that cleans off toner remaining on the photoconductor after the toner image has been transferred[[;]], a belt that is suspended in a circumferential direction of the photoconductor, wherein the belt being a flat type belt made of polyurethane, and the belt having a JIS-A hardness of 83 degrees, a width of 5 mm, a length of 325 mm, a thickness of 2 mm, and a dead weight of 4.58 grams, the method comprising:

determining that a frictional resistance Rf of the photoconductor against the belt is 45 gram-force<Rf<200 gram-force, wherein determining that the frictional resistance Rf of the photoconductor against the belt is 45 gram-force<Rf<200 gram-force comprises

hanging a 100-gram load is hanged at one end of the belt so that a contact length thereof with the photoconductor is 3 mm and a contact area is 15 mm²;

the belt is a polyurethane flat type,

the belt has a JIS-A hardness of 83 degrees, width of 5 mm, a length of 325 mm, a thickness of 2 mm, and a dead weight of 4.58 grams,

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connecting a force gauge to another end of the belt;

reading a value from the force gauge when the belt moves, and

a frictional resistance Rf of the photoconductor against the belt is 45 gramforce<Rf<200 gram force, the frictional resistance Rf measured under such conditions that a
value obtained by subtracting the 100-gram load from the read value of the digital force
gauge is determined as to determine the frictional resistance Rf; and a digital force gauge that
is fixed to another end of the belt and a value is read from the digital force gauge when the
belt moves, and

forming the image with the image forming apparatus in which the frictional resistance Rf of the photoconductor against the belt is 45 gram-force<Rf<200 gram-force.